

# OIL-FREE SLIDE UNITS FOR LOOSE CORE

—STANDARD · FIXING TYPE—



Printed in Red

The volume discount rate is also applicable to alteration cost. All price & lead time are to be quoted.

RoHS

## Features of Oil-free Slide Units for Loose Core

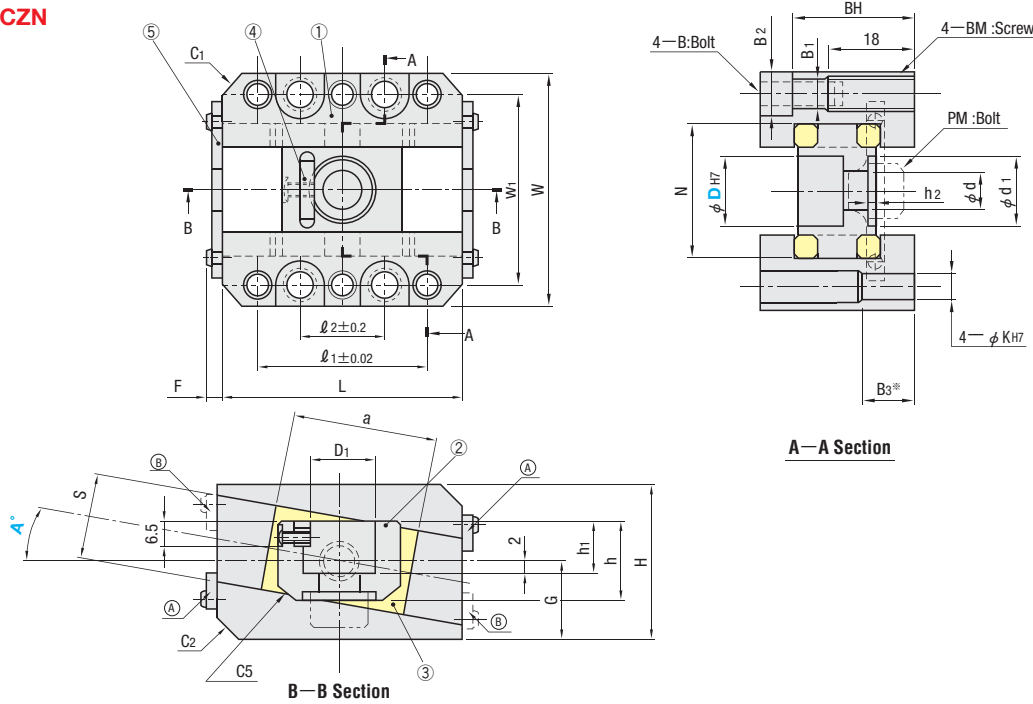
- Enables the inclined pin to slide smoothly when pushing out a loose core (including undercut) at an angle.
- The inclined pin guide slide within the range of  $\theta$ , and the automatic center adjustment function reduces wear and scoring on the guide and slide plates.

Item	Components	Material	Piece
①	Slide base	S55C	2
②	Inclined pin holder	S55C	1
③	Slide plate	*CAC304+Solid lubricant	2
④	Parallel Key	S45C	1
⑤	Stopper	SS400	2

\* High strength brass casting class 4 (Old JIS:HBsC4)



SCZN



- Ⓐ and Ⓑ show the mounting position of the stopper. Refer to the angle of  $A^\circ$ .
- You can specify the mounting angle of the slide plate in  $1^\circ$ -steps between  $1^\circ$  and  $10^\circ$  to match the angle of the undercut of the molded part.
- ※ The  $B_3$  dimension of D20, 25 and 30 is the size after the specifications are changed. For details of the specification change refer to P.35

① Slide base		② Inclined pin holder				③ Slide plate			G	F	Catalog No.	Mounting angle of slide plate $A^\circ$ 1° Increments	U/Price $A^\circ$		
W	L	H	C <sub>1</sub>	C <sub>2</sub>	D <sub>1</sub>	d	d <sub>1</sub>	h						h <sub>1</sub>	h <sub>2</sub>
56	55	35	5	—	11	5.5	—	16	10	—	30	20	35	17.5	4.65
60	65	36	6	—	15	9	16	18	11	3	33	20	40	18	4.65
68	70	43	6	5	18	11	20	22	13	5.5	38	24	40	21.5	4.65
75	80	45	6	5	22	11	20	26	15	5.5	45	26	45	22.5	4.65
81	95	54	6	5	27.5	11	20	30	17	3.5	51	30	55	27	4.65

Catalog No.	Bolt hole dimensions								Mounting position of stopper			
	Type	D	$\ell_1$	$\ell_2$	W <sub>1</sub>	B <sub>1</sub>	B <sub>2</sub>	B <sub>3</sub>	BM	BH	K	(A)
SCZN	12	42	21	45	6.6	11	15	M 8	28.5	6	0°~10°	—
	16	46	25	48	6.6	11	15	M 8	29.5	6	0°~10°	—
	20	50	25	55	8.6	13.5	20	M10	34.5	8	4°~10°	0°~3°
	25	60	35	62	8.6	13.5	20	M10	36.5	8	4°~10°	0°~3°
	30	75	50	68	8.6	13.5	20	M10	45.5	8	0°~10°	—



Order



Delivery

Catalog No. —  $A^\circ$   
**SCZN20** — 0

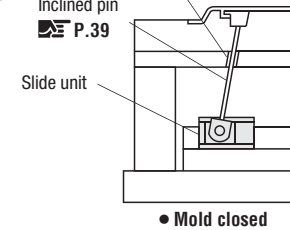
•  $A^\circ = 0^\circ$  •  $A^\circ = 1^\circ \sim 5^\circ$   
 SGP Stock **3** Days

•  $A^\circ = 2^\circ \sim 4^\circ \cdot 6^\circ \sim 10^\circ$   
**14** Days

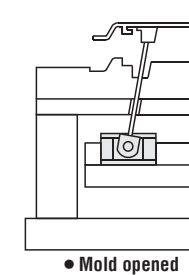
For area out of Singapore please refer to P.I.  
 Stocks Availability Subjected to Prior Sales.



Inclined pin leader bushing P.45  
 Example Inclined pin P.39



● Mold closed

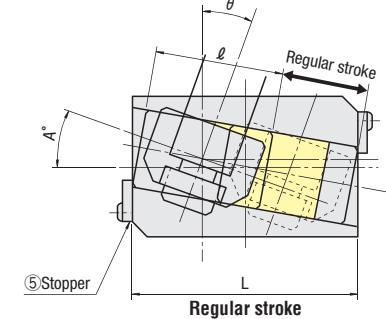


● Mold opened

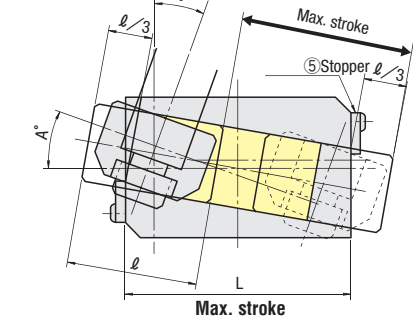
Applicable inclined pin : Example of mounting dimension

D	D <sub>1</sub>	B	PM
12	11	13	M 5
16	15	14	M 8
20	18	16	M10
25	22	18	M10
30	27.5	20	M10

## List of stroke



Regular stroke



Max. stroke

Unit : mm

Catalog No.	Regular stroke (Distance through which the slide plate moves to the end face of the slide base.)										
	A=0	A=1	A=2	A=3	A=4	A=5	A=6	A=7	A=8	A=9	A=10
SCZN12	20.0	19.6	19.3	19.0	18.7	18.4	18.2	17.9	17.7	17.5	17.3
SCZN16	25.0	24.6	24.3	24.0	23.7	23.4	23.2	23.0	22.8	22.6	22.4
SCZN20	30.0	29.5	29.2	28.8	28.4	28.1	27.8	27.5	27.3	27.0	26.8
SCZN25	35.0	34.5	34.1	33.7	33.3	33.0	32.7	32.4	32.1	31.8	31.6
SCZN30	40.0	39.4	39.0	38.5	38.1	37.7	37.3	37.0	36.7	36.4	36.1

Range of angle  $\theta$  :  $0^\circ \leq \theta \leq 20^\circ$

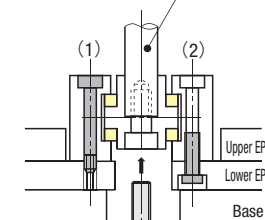
Unit : mm

Catalog No.	Max. stroke when taking the stopper ⑤ off (Standard stroke + 2 $\ell/3$ . Note that this is the maximum value at which interference does not occur between the slide plate and the mounting face.)										
	A=0	A=1	A=2	A=3	A=4	A=5	A=6	A=7	A=8	A=9	A=10
SCZN12	43.3	42.9	42.6	42.3	42.0	41.7	41.5	41.2	41.0	40.8	40.6
SCZN16	51.6	51.3	51.0	50.7	50.4	50.1	49.9	49.6	49.4	49.3	49.1
SCZN20	56.6	56.2	55.8	55.5	55.1	54.8	54.5	54.2	53.9	53.7	53.5
SCZN25	65.0	64.5	64.1	63.7	63.3	63.0	62.7	62.4	62.1	61.8	61.6
SCZN30	76.6	76.1	75.6	75.2	74.8	74.4	74.0	73.6	73.3	73.0	72.8

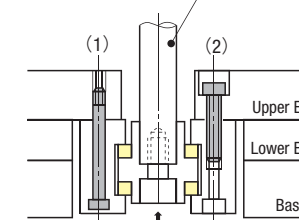
Range of angle  $\theta$  :  $0^\circ \leq \theta \leq 20^\circ$

## Mounting examples

● Mounting examples A



● Mounting examples B



(Use the unit with its slide base up side down.)

- Refer to the above table for dimensions of the inclined pin's edge cutout and screw size (PM). The counterbore in the inclined pin holder is made in a size that accommodates a socket head screw with a spring washer.

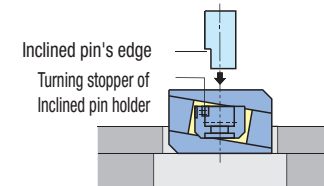
- The unit can be mounted on an ejector plate in two ways:  
 (1) Screwing into the ejector plate, or  
 (2) Screwing into the unit.  
 For (2) use a socket head cap screw that corresponds to BM in the "Bolt Hole Dimensions" table. For (1) select a rank below the corresponding BM (i.e., M6 screw when BM is M8).

- Prior to mounting, apply \* grease to the unit in order to protect it from wear during initial running-in.

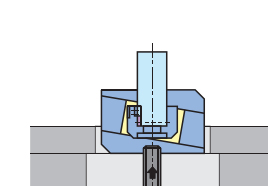
\*Initial running-in molybdenum grease(GSMOS)

- If the stroke is long, it is recommended that you use a bushing that supports the indined pin. P.45

## How to mount the inclined pin



1. Position the inclined pin's edge cutout on the turning stopper of the inclined pin holder and insert it.



2. Make sure to fix the inclined pin by tightening it up using the socket head cap screws or socket low head cap screws.